KRATOCHVIL, P.; MUNK, P.; SEDLACEK, B.

Interaction of albumins. XXVII. Study of the effect of temperature and pH on the thermal denaturation of human serum albumin by means of isoelectric precipitation. Coll Cz chem 26 no.6:1499-1504 Je 161.

1. Institut fur makromolekulare Chemie, Tschechoslowakische Akedemie der Wissenschaften, Prag.

(Serum albumin) (Precipitation(Chemistry))

A THE CONTRACT OF THE PROPERTY OF THE PROPERTY

MUNK, P.; KRATOCHVIL, P.

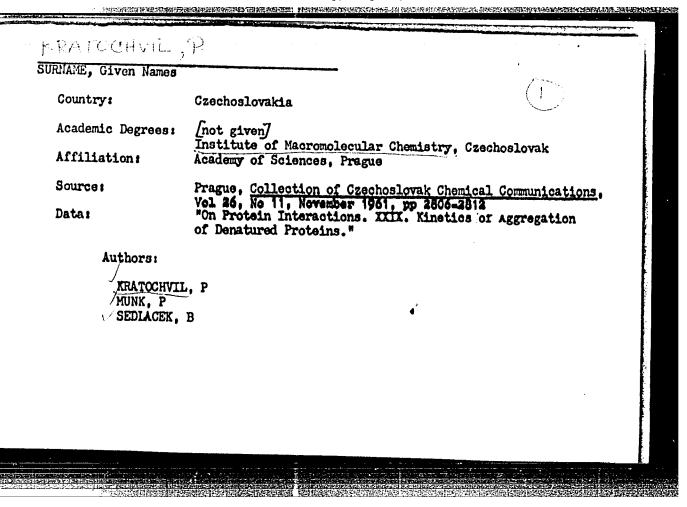
Streaming birefrigence. I. The principal vibration and the magnitude of birefrigence. Coll Cz chem 26 no.6:1591-1616 Je '61.

1. Institute of Macromolecular Chemistry, Czechoslovak Academy of Science, Prague.

(Refraction, Double)

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826220



MUNK, P.; KRATOCHVIL, P.; SEDLACEK, B.

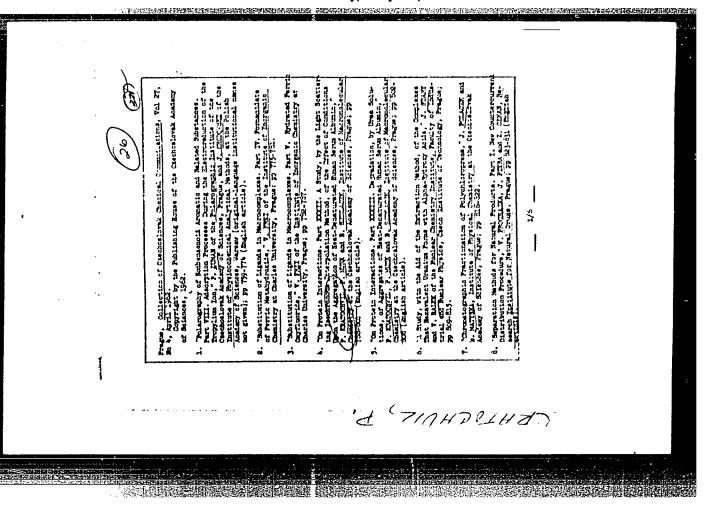
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Behavior of macromolecules in solution. Part 2; Relation between viscosity, molecular weight, and radius of gyration. Coll Cz Chem 26 no.12:2992-3002 D '61.

1. Institute of Macromolecular Chemistry, Csechoslovak Academy of Science, Prague.

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826220



MUNK, P.; KRATOCHVIL, P.

Streaming birefrigence. Part 2: Nomograph for calculation of the magnitude of birefrigence. Coll Cz Chem 27 no.9:2202-2203 S 162.

1. Institute of Macromolecular Chemistry, Czechoslovak Academy of Sciences, Prague.

CSSR

BARTL, P.; LUNK, P.; KRATOCHVIL, P.; STOKROVA, S.

no academic titles indicated

Institute of Organic Chemistry and Biochemistry and Institute of Macromolecular Chemistry, Czechoslovak Academy of Science, Prague

Prague, Collection of Czechoslovak Chemical Communications, No 1, 1963, pp 125-130

"Protein Interactions, XXXV. Type of Aggregates of Human Scrum-Albumin Formed After Thermal Denaturation in the pH-Region Near the Isoelectric Point"

(4)

KRATOCHVÍL, P; MUNK, P; ŠTOKROVÁ, S; ŠPONAR, J; SEDLÁČEK, B.

Czechoslovakia

Institute of Macromolecular Chemistry and Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Science -- Prague - (for all)

Prague, Collection of Czechoslovak Chemical Communications, No 4, 1963, pp 972-983

ACHEMINA MANDELANDE MONTE DE MANGE DE M

"Protein Interactions. XXXVIII. Retardation of Aggregation of Heat-Denatured Human Serum Albumin by Frevious Heating."

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APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008262200

MUNK, P.; KRATOCHVIL, P.

Streaming birefringence. Pt.4. Coll Cz Chem 28 no.10:
2539-2549 0 '63.

1. Institute of Macromolecular Chemistry, Czechoslovak Academy of Sciences. Frague.

Characteristics of vinyl polymers and their models. Pt.2. Chem Cz Chem 29 no.11:2767-2782 N '64.

1. Institute of Macromolecular Chemistry of the Czechoslovak Academy of Gaiencea, Prague.

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826220

KRATOCHVIL, lavel

CZECHOSLOVAKIA/Physical Chemistry - Thermodynamics,

B**-**8

OF THE PROPERTY OF THE PROPERT

Thermochemistry, Equilibria, Physical-Chemical Analysis, Phase Transitions.

Abs Jour

: Referat Zhur - Khimiya, No 1, 1958, 418

Author

Stanislav Havel, Antonin Pospisil, Pavel Kratochvil,

Vladimir Kudlacek.

Inst Title

•

Ternary Systems Water - Benzene - Allyl Alcohol and Water -

Toluene - Allyl Alcohol.

Orig Pub

: Chem. prumyst, 1957, 7, No 5, 248-253

Abstract

: The equilibrium liquid - liquid in the ternary systems water - benzene - allyl alcohol and water - toluene - allyl alcohol was studied at 25°. The refraction indices and densities of the ternary systems were measured at 30°. The composition of liquid equilibrium phases was determined. Triangular graphs of solubility with binodals and nodes shown on them were plotted. A correlation of

Card 1/2

CZECHOSLOVAKIA/Physical Chemistry - Thermodynamics,

B-8

Thermochemistry, Equilibria, Physical-Chemical.

Analysis, Phase Transitions.

Abs Jour

: Ref Zhur - Khimiya, No 1, 1958, 418

experimental data according to Ottmer-Tobias and Bachmann-

Hand was carried out.

Card 2/2

CZECHOSLOVAKIA/Optics - Instrument for Optical Analysis.

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Abs Jour

: Ref Zhur Fizika, No 11, 1959, 26337

Author

: Kratuchyil, Payel; Sedlacek, Blahuslav

The manufactures were to a con-

: Czechoslovak Academy of Sciences, Prague, Czechoslovakia

Title

Inst

: Differential Refractometer

Orig Pub

: Chem. listy. 1958, 52, No 12, 2414-2417

Abstract

The distinguishing feature of the proposed design consists of employing the auto-collimation scheme with double passage of the rays through the cuvette, the upper portion of which has a barrier, forming meighboring prisms with a solution and with solvent, and the lower (plane-parallel) is filled with the solvent. This increases the sensitivity, makes the instrument more compact, and by simultaneous observation of the rays passing through the upper and lower parts of the cuvette, there

Card 1/2

CZECHOSLOVAKIA/Optics - Instrument for Optical Analysis.

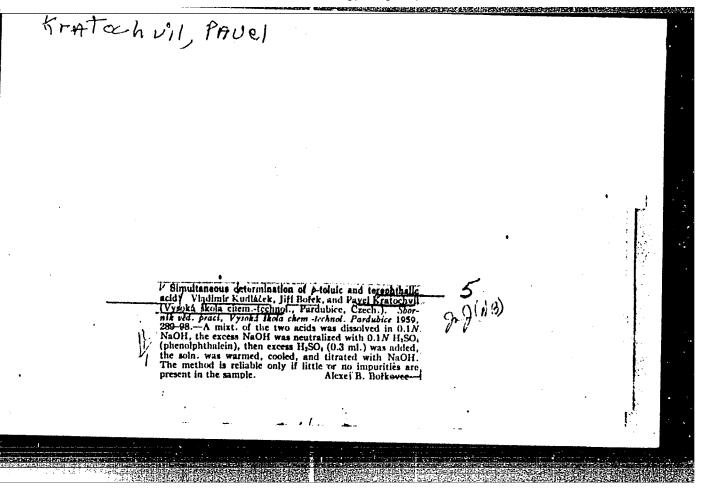
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Abs Jour : Ref Zhur Fizika, No 11, 1959, 26337

is eliminated the influence of the mechanical shifts during changes in the measured solution. The shift of the image of the slit is measured with a micrometer serew, which moves the eyepiece perpendicular to the optical axis of the instrument. The difference of the indices of refraction (up to 0.01) is measured with accuracy of 0.1%. The reproducibility is 1 x 10-6.
-- B.V. Loffe

Card 2/2

- 122 -



PRASEK, L., Mg. Mat.; KRATOCHVIL, P., promovany matematik

Calculating natural frequencies of turbine blade flexural vibrations on digital computers. Strojirenstvi 13 no.7:490-496 Jl *63.

1. Vyzkumny a zkusehni ustav, Leninovy zavody, Plzen.

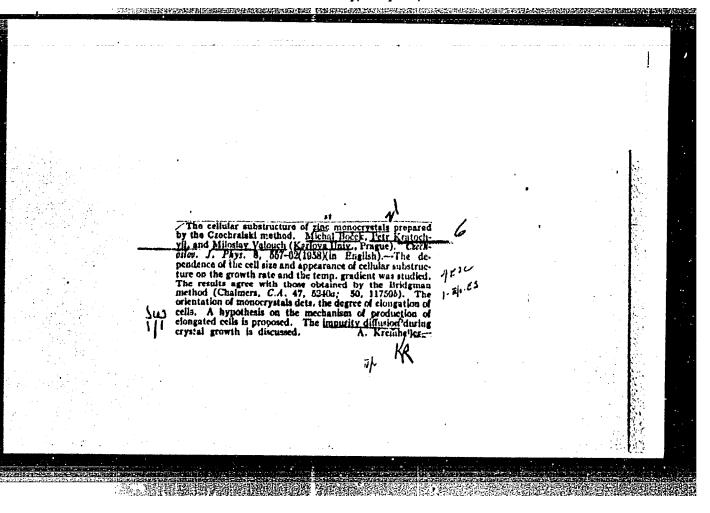
KOPECEK, Jan, inz.; BARACEK, Jaroslav, inz.; KRATOCHVIL, Patr, promoveny matematik.

Use of an automatic computer in transformer calcultaions. El tech obzor 52 no.11: 592-597 N.63.

1. Zavody V.I.Lenina Plzen, n.p.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008262200

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	AUTHORS: TITLA: FARICDICAL	Abstract:	. fart 1/4	Card 2/4	មនុស្ស មិថុ គឺ នី ប៉ី ដើម្បី : !	₩ ₩ V 4 Q Q P P Q Q		ASSOCIATION: FAI SSO SSO PEN	



CZECH/37-59-2-15/20

AUTHORS: Michal Boček, Petr Kratochvil

Card

1/2

TITLE: Letter to the Editor: Dislocations in Zinc Single

Crystals with Elongated Cells

PERIODICAL: Československý Časopis Pro Fysiku, 1959, Nr 2,

pp 214-215 + 1 plate

ABSTRACT: Recently a number of mechanisms have been discussed

(Refs 1-6) which can lead to the formation of dislocations during crystal growth. A new mechanism was proposed by Tiller (Ref 7), using micro-segregation of impurities. The boundary between a fibrous and a band sub-structure is a region rich in impurities (k \(\) 1). Due to such an improvement of impurities, a lattice

inhomogeneous distribution of impurities, a lattice distortion in the vicinity of the segregation occurs. This distortion can be relieved by the formation of dislocations. Eq (1) (Ref 7) gives the density of dislocation lines perpendicular to the boundary between

the crystal and the melt. With a view to Tiller's model,

we have measured the density and arrangement of dislocations in zinc crystals. The crystals, with a

cross-section of 1 mm², were grown by the Czochralsky method. They contained 2.2 x 10⁻² at.% of cadmium.

CZECH/37-59-2-15/20

Letter to the Editor: Dislocations in Zinc Single Crystals with Elongated Cells

They were annealed at 200 °C for 24 hours, slowly cooled to room temperature and then etched by various methods (Refs 9, 10), in the plane parallel with the boundary between solid and liquid. The method of polishing described in Ref 9 and etching in a solution of 50% HNO3 in ethyl alcohol for 15 minutes, was particularly successful. Fig 1 (p 222e) shows the observed array of dislocations. This was in good agreement with the model of Ref 7. The density of etch-pits was 6 x $10^{5}/\text{cm}^{2}$. From Eq (2), we would have estimated $\beta = 10^{6}/\text{cm}^{2}$. The difference is accounted for by the homogenisation during growth and annealing (Refs 11, 12 and 13). We consider that the mechanism described in Ref 4 leads to the formation of the majority of the dislocations in the case described. There are 1 figure and 13 references, of which 10 are English, 2 Czech and 1 German.

ASSOCIATION: Katedra fysiky pevných látek matematicko-fysikální

fakulty K.U., Praha (Chair of Solid State Physics, Card 2/2

Charles University, Prague)

SUBMITTED: October 4, 1958

KRATOCHVIL, P?

"Zone melting and crystal growth."

POKROKY MATEMATIKY, FYSIKY A ASTRONOMIE, Praha, Czechoslovakia, Vol. 4, no. 2, 1959

Monthly List of EAST EUROPEAN ACCESSIONS INDEX (EEAI), LC, Vol. 8, No. 7, July, 1959

Unclassified

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008262200

KRATOCHVIL, P.

Zonal melting and acquisition of crystals (Conclusion) p. 430

VINDERPARATION DE L'ANTINE DE L'ANTINO DE

POKROKY MATEMATIKY, FYSIKY A ASTRONOMIE. (Jednota ceskoslovenskych matematiku a fysiku) Praha, Czechoslovakia, Vol. 4, no. 4, 1959.

Monthly List of East European Accessions (EFAI), LC, Vol. 8, no. 10, Oct. 1959 Uncl.

KRATOCHVIL, Petr

Dislocations originating in crystal growing. Pokroky fys pev latek 6: 199-220 '61. (EEAI 10:9)

1. Katedra fyziky pevnych latek Karlovy university.

THE STATE OF THE PROPERTY OF T

(Dislocations in crystals)

S/137/62/000/005/114/150 A006/A101

AUTHORS: Kratochvil, P., Molčik, M.

TITLE: Investigating the structure of zinc single-crystals with the aid of

an electron microscope

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 5, 1962, 91 - 92, abstract

51564 ("Chekhosl. fiz. zh.", 1961, v. B11, no. 7, 540 - 541,

English summary)

TEXT: A Tesla BS242 electron microscope was used to study the nucleation and growth of dislocations in etching pits on zinc single-crystals of 99.997% purity. The surface of the single crystal was polished by the Gilman method and etched in a 6.5% nitric acid solution in distilled water during 30 sec. Thus the zones of dislocation emergence became visible. Collodion-carbon replica were taken off an etched area of the single crystal (a layer of 3% collodion solution in amyl acetate was applied on to the specimen and then a 500 Å thick carbon film was sprayed-on, which was shaded with AuPd). The described method was found to assure the possibility of studying dislocations at up to 108 cm⁻² density. There are 9 references.

[Abstracter's note: Complete translation] I. Nikitina

Card 1/1

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008262200

0/030/62/002/009/004/004

AUTHORS:

Boček, H., Kratochvil, P., Lukác, P. (Czechoslovakia)

TITLE:

The effect of impurities on the critical resolved shear stress of minc single crystals

PERIODICAL: Physica Status Solidi, v. 2, no. 9, 1962, 1221-1224

TEXT: Many measurements have been performed to explain in detail the effect of many parameters on the value of the critical resolved shear stress, the effect of impurities being of the greatest interest. The authors give a more detailed discussion of this subject than has previously appeared. It is assumed that during crystal growth a microsegregation takes place which is connected with the existence of a dislocation network. From this point of view the relation between the critical resolved shear stress of zinc single crystals and their purity is investigated. For the evaluation the measurements made by many authors on zinc single crystals were collected. Only those with solutes: that are soluble in the used range, i.e. they form solid solutions and that have known equilibrium distribution coefficients

Card 1/2

G/030/62/002/009/004/004

The effect of impurities on the critical ...

are considered. The results: a) the square root dependence of τ , the critical resolved shear stress, on ρ , the density of dislocations, and b) the good value of the constant 2.6 in $\tau=2.6~(\sqrt{\rho})^{0.94}$, support the interpretation of the indirect effect of impurities on the critical resolved shear stress. Further calculations have shown that some other metals behave in the same manner. The authors thank Dr. E. Klier for many valuable comments on this work. One figure and one table are included.

ASSOCIATION: Department of Solid State Physics,

Charles University, Prague

SUBHITTED: July 9. 1962

Card 2/2

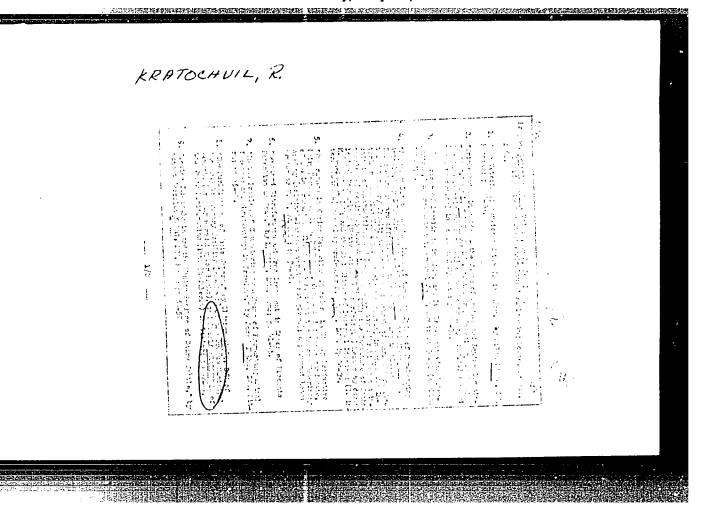
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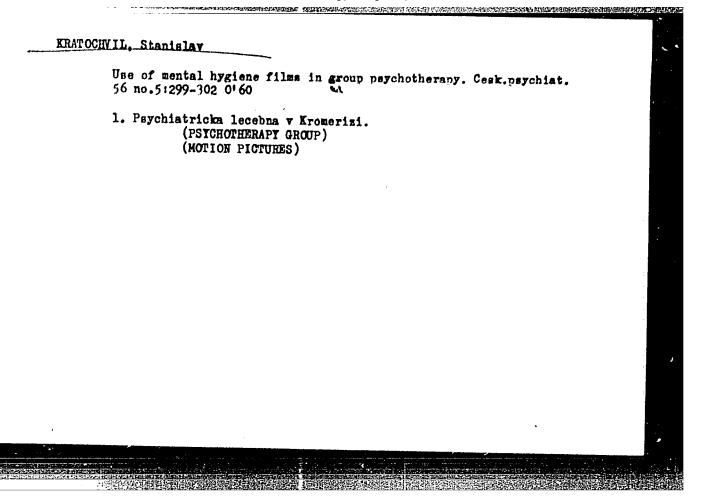
Let us prepare well for the harvest of root crops. p.321
MECHANICACE ZETEDELSTVI. (Minsterstvo zemedelstvi) Fraha
Vol. 5, no. 17, Sept. 1955

East European Accessions Idst

Vol. 5 No. 1

Jan. 1956





KRATOCHVIL, Studiu

Autogenous exercise in psychotherapy of neuroses. Cesk. psychiat.

1. Psychiatricka lecebna v Kromerizi.
(PSYCHOTHERAPY) (NEUROSES)

KRATOCHVIL, STANISLAV

Hydraulika. / Vyd. 1. / Bratislava, Praca, 1950. 559 p. (Technicka kniznica Prace, 5) Hydraulics. Bibl., diagrs., name index /

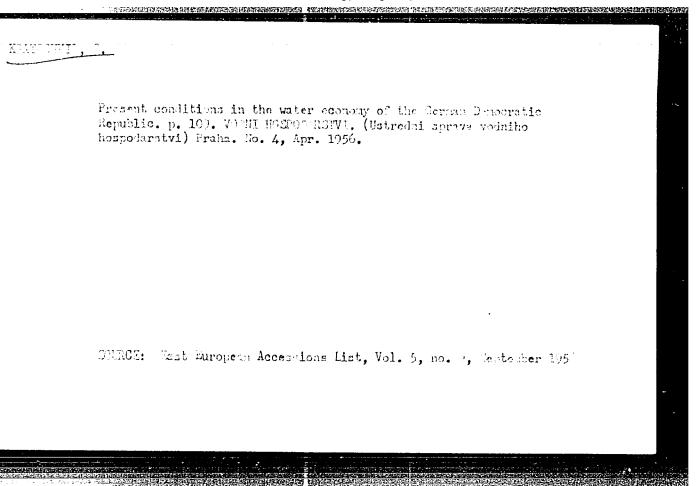
SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, LC., VOL. 3, NO. 1, Jan. 1954, Uncl.

Udolne priehrady. (1. vyd.) Bratislava, Vydavatelatvo Slovenskej akodemie vied, 1953. 687 p. (Doms. 1st ed. illus., diagrs.)

KRATOCHVIL, STANISLAV.

Vyuziti vodni energie. (l.vyd.) Praha, Nakl. Ceskoslovenske akademie ved, 1956. 693 p. (Utilization of water power. lst ed. illus., bibl., diagrs., graphs, indexes)

SO: Monthly List of East European Accessions. (EEAL) LC, Vol. 6, No. 6, June 1957. Uncl.



KRATOCHVIL, Stan., prof., ing., dr., docteur es sciences techniques.

Hydraulic properties of needle valve floodgates (Johnson's system) and of those with pistons. Vodoprivreda Jug 2 no.7/8:171-175 '59.

(EEAI 10:1)

1. Directeur de l'Institut des recherches hydrotechniques a l'Universite technique de Brno (CSR).

(Sluice gates) (Hydraulics) (Water pipes)

KRATOKHVIL, S. [Kratochvil, S.] (Brno); GALEK, V. [Halek, V.] (Brno)

Experimental solution of some harmonic problems by the method of diaphragm analogy [with summary in English]. Prytl. mekh. 5 no.1:55-64 '59. (MIRA 12:6)

1.N.-d. institut gidrotekhniki v Brno (Chekhoslovakiya)

(Harmonic analysis)

KRATOCHVIL, Stanislav, prof., inz., dr., Dr.Sc.

Sealing of earth and stone dams, Inz stavby 9 no.10:382-386 0 161.

1. Vysoke uceni technicke, Brno.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008262200

KRATOCHVIL, St., prof., inz., dr.

"Water resources management" by [prof., mgr., inz.] Aleksander Tuszko. Reviewed by St.Kratochvil. Vodni hosp 12 no.11: 440 N '62.

STATEMENT OF THE PROPERTY OF T

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008262200

KRATOCHVIL, Stanislav, , prof., inz. dr., DrSc.

Catastrophic flood from the Vajent Dam. Vod hosp 13 no.11: 401-402 '63.

1. Vysoke uceni technicke, Arno.

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U LECHOSLOVAKIA

HRATOT VII. S.: Psychiatric Clinic, Medical Faculty, J.Ev. Purkyne university (Psychiatricka Klinika Lokarske Fakulty UJEVP), Brno.

"The Problem of Existential Prustration."

Praguo, Goskoslovenska Psychiatrio, Vol 62, No 5, Oct 66, pp 322 - 326

Notice and suicidal patients with existential frustration as defined by Frankl is discussed. It is important to distinguish causal existential frustration from symptomatic life nihilism caused by endogenous depression. Group thermay should be used to treat existential frustration, with patients helding each other. Two thermapsuite approaches should be used in parallel: causal attacking of the meaning of life by locotherapy, and symptomatic attacking of the depression by activity. Intensive treatment should be given to solve patient's problem of finding the meaning of life; this should be followed by dereflection. In Western, 3 Czech references. (Manuscript received 12 Nov 65).

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008 200

CZECHOSLOVAKIA

ZDIMALOVA, M.; KRATOCHVIL, S.; Psychiatric Clinic, Medical Faculty, J.Ev. Purkyne University (Psychiatricka Klinika Lek. Fak. UJEVP), Brno, Department of Clinical Psychology (Oddeleni Klinicke Psychologie).

"Anxiety and Sexual Life of Women."

Prague, Ceskoslovenska Psychiatrie, Vol 62, No 6, Dec 66, pp 393 - 400.

Abstract Authors' English summary modified 7: An investigation of married women living in towns was conducted by means of a questionnaire; the women visited clinical services provided by the University for other reasons. 100 satisfactorily filled in questionnaires were analyzed. Among 54 women who had a satisfactory sexual life only 18 suffered from anxieties; out of 46 who did not, 36 suffered from anxieties. A definite connection between the two factors seems to have been established. The most frequent cause of frustration in women seems to be lack of erotic patience in males, not enough respect for the clitoridal type of sexual reactivity, and wrong anticonception methods. 3 Tables, 8 Western, 9 Czech references.

***RATCHIVIL V. and SCLICKA L. **Stanoveni amiling, C-, N-, S-toluiding N-Dimitrylaniling and N-Dimitrylaniling of aniling, O-, n-, p-toluiding, n-dimethylaniline and n-dimitrylaniline in the air PRACONIL ESCANSIVI (Praha) 1954, C/3 (196-159) Graphs 5

Methods of colorimetric estimation of aniling, O-, n-, p-toluiding, dimethylaniline, diethylaniline concentrations in the air were controlled and further developed. The required apparatus and solutions as well as proceedings are described in detail.

Vokocil - Bruno

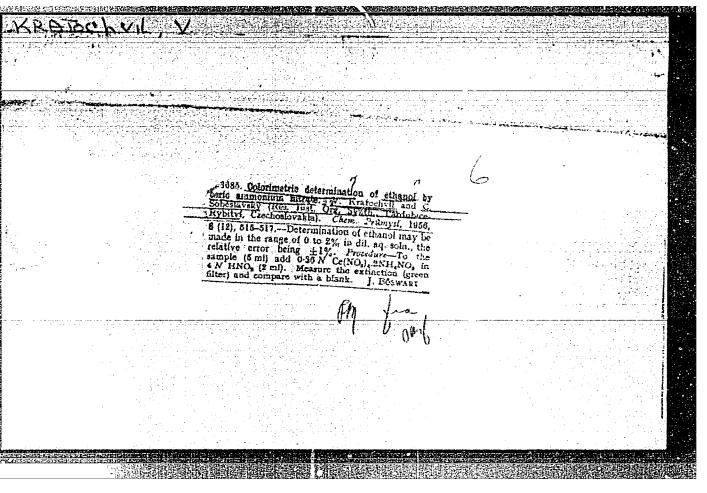
SC: **Excerpta Medica, Vol.1 No. 2 Section XVII, February 1955.**

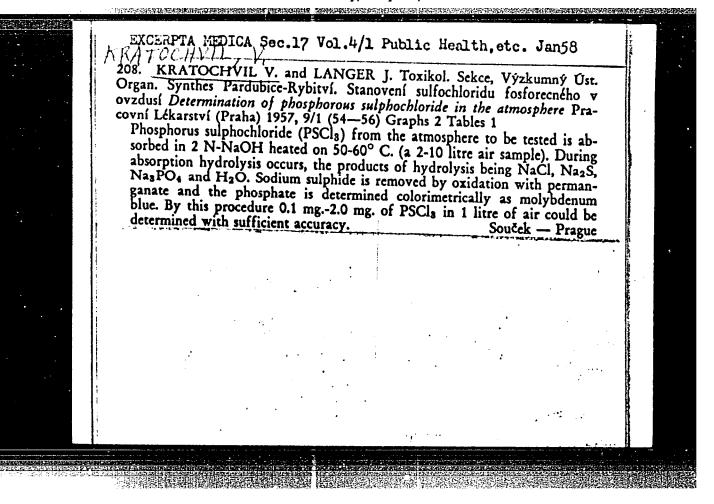
KRATOCHVIL, V. Ing.; HOLICKA, Y.

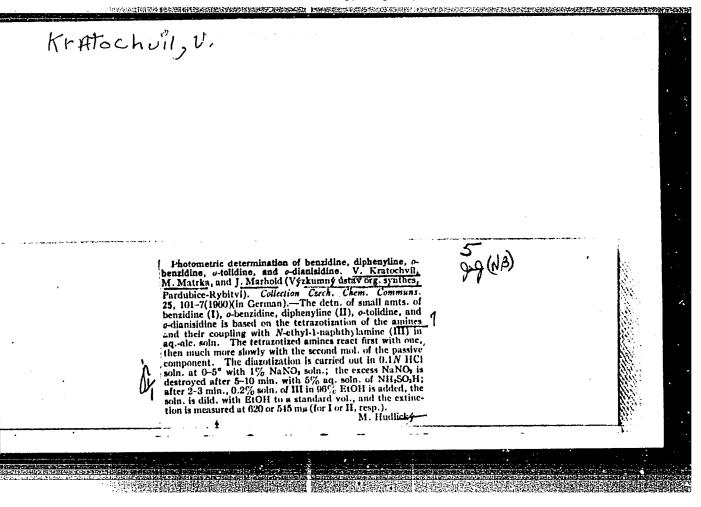
Acetone determination in the air. Pracovni lek. 7 no.1:32-34 Feb 55.

在全国的特别的基础建筑的**的是一个企**员的特别的特别。

1. Vyskumny ustav organickych syntes Pardubice-Rybitvi, toxikol. sekce
(ACETONE, determination
 in air. methods)
(AIR POLLUTION
 acetone, method of determ.)
(INDUSTRIAL HYGIENE
 acetone determ. in air, methods)







KRATOCHVIL, Vaclav

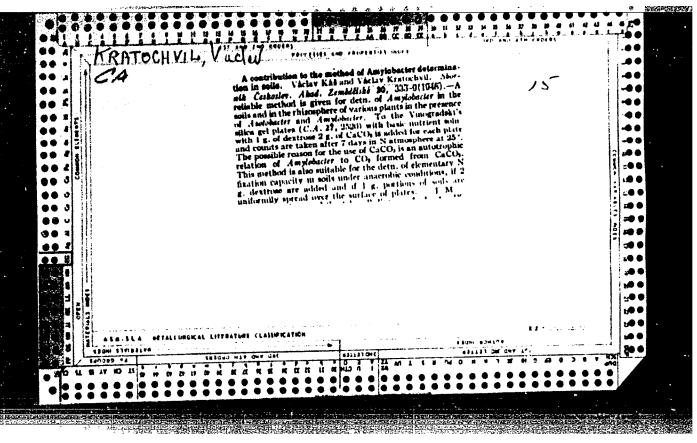
Problems of photometric determination of silicon. Chem listy 59 no.6:672-684 Je '65.

1. Research Institute of Organic Synthesis, Pardubice-Rytitvi.

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-

CIA-RDP86-00513R000826220

L 21107-66 RO ACC NR: AP6008792	(A) SOURCE CODE: CZ/0009/65/000/011/0682/068	55
AUTHOR: Spevak, Ant	tonin, Kratochvil, Vaclav—Kratokhvil, Vatslav	
ORG: Research Institute organickch syntez)	itute for Organic Synthesis, Pardubice-Rybitvi (Vyzkumny ustav)
TITLE: Rapid semiqu	uantitative determination of phosgene concentration in the air	
SOURCE: Chemicky pr	orumysl, no. 11, 1965, 682-685	
TOPIC TAGS: air po	ollution, phosgene	
air using test tube in color. Due to the used for checking	plor reaction was employed for the detection of phosgene in the es. The presence of phosgene is indicated by a distinct change their sensitivity (0.2 g of phosgene per liter), the new tubes can gair polution by phosgene in various chemical plants. A comreactions used for this purpose is given. Orig. art. has: [KS]	ın
SUB CODE: 07, 13/	SUBM DATE: 18Aug65/ ORIG REF: 004/ OTH REF: 019/ SOV REF: 0	03
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Operations of a carrion processing plant. Prum potravin 14 no.51234 My *63. 1. Kafilerie, n.p., Tisice.

KRATOCHVIL, Vaclav; NEPRAS, Milos

Rapid semiquantitative determination of the aromatic hydrocarbon concentration in the atmosphere. Chem prum 14 no.1:43-45 Ja'64.

1. Vyzkumny ustav organickych syntez, Pardubice - Rybitvi.

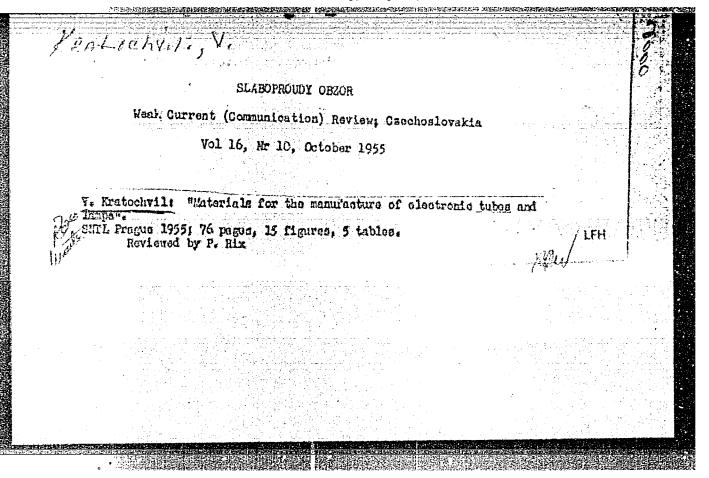
APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826220(

KRATOCHVIL, V. - Vol. 14, no. 4, Apr. 1953. SLABOPROUDY OBZOR

J. Katscher's article "Objective Method for Serial Measurements of Applicability of Electronics to Microphones." p. 191.

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955
Uncl.

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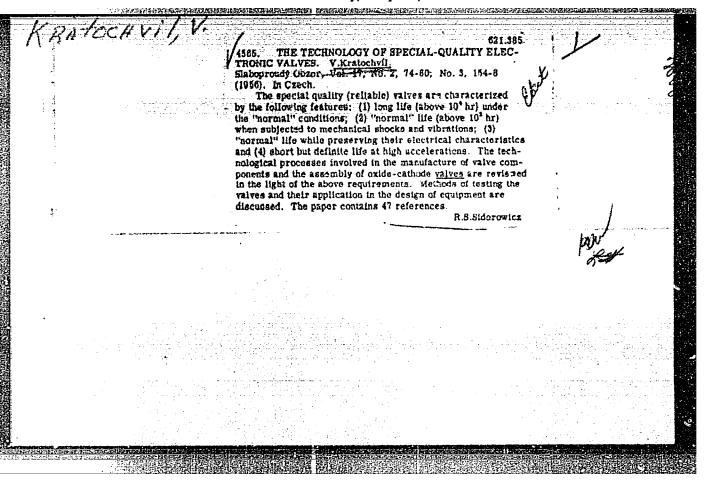
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"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826220



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HAAROUSTI, V. Technology of special-quality electron tutes. (Conclusion) p.15h. SLABOUROUST OUTCOM. Vol 17, No. 3, Eureh 1956. Prague. 20: Eonthly List of East European Accessions (NEAL.) LO, Vol 6, No. 0, June 1956 Incl.

KRATCCHVII, V.

Plocking electric equipment. p.19h.
(Elektrotechnik, Vol. 12, No. 6, June 1957, Praha, Czechoslovakia)
(Elektrotechnik, Vol. 12, No. 6, June 1957, Praha, Czechoslovakia)

S0: Monthly List of East European Accessions (EEAL) 10. Vol. 6, No. 9, Sept. 1957. Uncl.

KRATOCHVIL, V.

Split-voltage transformers.

p. 348 (ELEKTROTECHNIK) Vol. 12, no. 11, Nov. 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3, March 1958

CZECHOSLOVAKIA/Electronics - Electron Tobes.

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Abs Jour

: Ref Zhur Fizika, No 9, 1959, 20690

Author

Kratochvil, Vladimir., Zuzanek, Jaroslavy

Inst

Title

: Czechoslovak Line-Fed Receiving-Amplifying Tubes 1957 -

1958

Orig Pub

: Slaboproudy obzor, 1957, 18, No 12, 860-865

Abstract

: The a thors give the principal parameters and properties of Czechoslovak receiving amplifying tibes, fed from the line. It is noted that thanks to the high qualities of modern miniature eight and nine pin receiving-amplifying tubes of Czechoslovak manufacture, receivers can be constructed for world-wide reception in all sizes. The improvement in the technology of tube man facture are indi-

cated.

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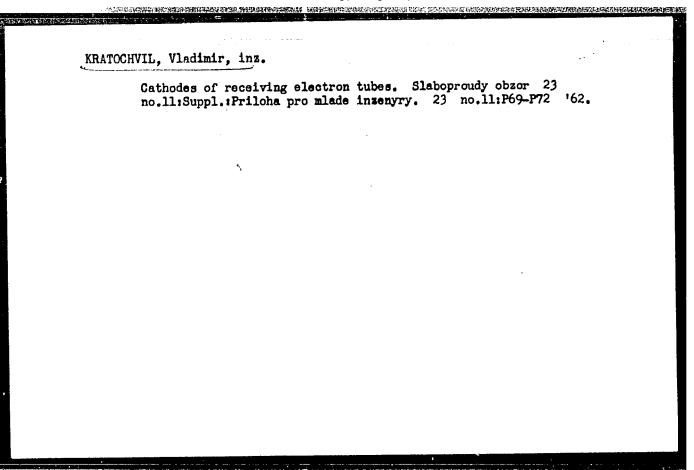
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(Electron tubes)

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1. Pracovnik televisni vysilaci stanice Stredni Cechy.



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Technical conditions for the TESIa special quality electron tubes. Sdel tech 11 no. 12: 452-455 D 163.

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1. II. chirurgicka klinika university JEvP v Brne, prednosta prof. dr. J. Navratil. Katedra termomechaniky VUT v Brne, prednosta dr. inz.

V. Enenkl. (HEART DEFECTS CONGENITAL) (HEART SURGERY)

(HYPOTHERMIA INDUCED)

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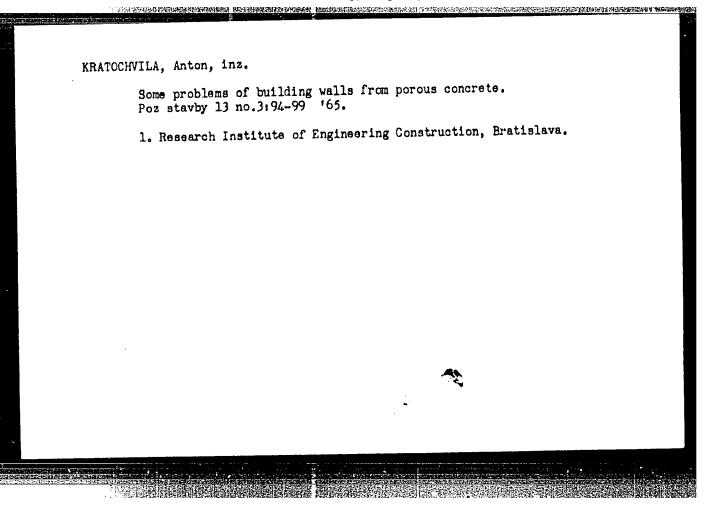
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Development of new building materials used in wall construction in Slovakia. p. 225.

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Dorsolumbar kyphosis - outline of practical exercises. Acta chir. orthop. traum. cech. 22 no.1-2:13-17 Feb 55.

1. 2 orthoped. cdd. CUNZ. Trebic, predn: primar dr. M.Florian. (KYPHOSIS sorsolumbar, exercise ther.)

(EXERCISE THERAPT, in various diseases kyphosis, dorsolumbar)

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FLORIAN, M.; KRATOCHVILA, J.

Prevention of faulty posture in special physical training classes in schools. Acta chir. orthop. trauma. Cech. 29 no.1:25 F 162.

1. Crtopedicke oddeleni OUNZ v Trebici, prednosta MUDr. M. Florian.

(POSTURE in inf & child) (PHYSICAL EDUCATION AND TRAINING)

CZECH/37-59-3-19/29

Milek, Karel and Kratochvilová, Eva AUTHORS:

"Spurious" AG Effect in Nickel (Letter to the Editor)

Československý časopis pro fysiku, 1959, Nr 3, pp 323-324 TITLE:

PERIODICAL: The modulus of elasticity of ferromagnetic materials ABSTRACT:

normally increases with magnetization. Recently, Ochsenfeld (Ref 2) has studied this $\triangle G$ effect on Ni, Fe

alloys and found a ΔG negative in weak fields.

We have studied ΔG on Ni by measuring the torsional vibrations of a nickel wire in either a DC or an AC magnetic field. Figure 1 shows ? G as a function

of the magnetic field (1 DC, 21 AC). The negative

AG effect is larger in an AC field.

The paper further shows that the minimum in G closely

corresponds to an observed maximum in the internal

There are 1 figure and 4 references, of which 1 is Soviet,

1 English, 1 German and 1 Czech.

Card1/2

CZECH/37-59-3-19/29 "Spurious" AG Effect in Nickel (Letter to the Editor)

ASSOCIATION: Ústav technické fysiky ČSAV, Praha (Institute of Technical Physics of the Czechoslovak

Ac.Sc., Prague)

SUBMITTED:

November 21, 1958

Card 2/2

CZECH/37-59-4-4/16 Study of Magnetostriction of Plastically Deformed Nickel PERIODICAL: Československý Časopis Pro Fysiku, 1959, Nr 4, 18.8100 ABSTRACT: To the author's knowledge, the dependence of magneto-To the author's knowledge, the dependence of magneto-striction on plastic deformation in nickel was studied only by Dietech (Ref 2) He has shown that plastic AUTHOR: only by Dietsch (Ref 2). The has shown that plastic deformation reduces the absolute values of magnetic only by pletson (Ref 2). He has shown that plant of magneto-deformation reduces the absolute values of magneto-deformation in magnetic fields up to hoo the striction in magnetic ileids up to 400 Ue. nigner of the influence of fields have not been studied, therefore in the caturated plastic deformation on proposed attriction in the caturated striction in magnetic fields up to 400 des fields have not been studied. Therefore the lields have not been studied, therefore the influence of the saturated in the saturated on find the saturated on find the saturated on find the saturated out by plastic deformation on fine measurements were carried out by state is unknown. The measurements the change in registance tensometers (Ref. 3). The change in registance tensometers state is unknown. The measurements were carried out by the change in resistance tensometers (Ref 3). The change to the change resistance tensometers (ner 3), The change in resistance of the tensometer is directly proportional to the change of the tensometer is directly proportional to the constant of proportional to the sample. of the tensometer is directly proportional to the change. The constant of proportionality in length of the Sample. Calibrating apparatus described was measured by a special Calibrating triction was in Ref 8. The value of the magnetostriction was was measured by a special callulating apparatus apparatus in Ref 8. The value of the magnetostriction was In Mer O. the value of the magnetostifiction was determined to an accuracy of 5.10 % and to an accuracy of 5.10 % and the samples of a state of the samples nickel (70 x 12 x 1.5 mm) were prepared from bour at nickel (70 x L2 x L.) mm) were prepared from technical pure electrolytic nickel and annealed for one hour at an one of in hydrogen Twelve samples were studied, each 1050 oc in hydrogen. Card 1/3

APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826220(

CZECH/37-59-4-4/16

Study of Magnetostriction of Plastically Deformed Nickel differently deformed by tension between 0:14%. Before each measurement, the samples were demagnetised. During the measurements, the magnetic field was increased monotonously from 0 - 1600 0e. For every value of the field, $\Delta \ell / \ell$ of the sample was measured. Fig 3 shows All as the function of the magnetic field for several values of deformation. Fig 4 shows the dependence of the Fig 4 shows the dependence of the magnetostriction on plastic deformation for various intensities of the magnetic field. In common with Dietsch's results we found, for weakly deformed samples, a waviness of the curves in Fig 4 in weak magnetic fields. We further found that for higher magnetic fields, the curves were wavy even at higher deformations. theoretical explanation of the undulating character of the curves exists, but it seems certain that it is a real Other effects showing similar undulating properties are discussed by A. Smolinski in a private communication and W.A. Wood (Ref 12).

Card 2/3 There are 4 figures and 12 references, of which 3 are English, 4 Soviet, 1 German and 4 Czech.

Study of Magnetostriction of Plastically Deformed Nickel
ASSOCIATION: Katedra fysiky pevných látek, Karlova universita,

(Chair of Solid State Physics, Charles University,

SUBMITTED: January 9, 1959

EWT(1) IJP(c) L 18478-66 SOURCE CODE: 02/0055/65/015/010/0718/0729 ACC NR: AP6003657 AUTHOR: Kratochvilova, E. Institute of Solid State Physics, Czechoslovak Academy of Sciences, Prague ORG: Magnetic after-effect in Mn ferrite TITLE: SOURCE: Chekhoslovatskiy fizicheskiy zhurnal, v. 15, no. 10, 1965, 718-729 TOPIC TAGS: manganese compound, magnetization, magnetic field ABSTRACT: An experimental study was performed to examine the influence of the magnetic diffusion after-effect on irreversible magnetization processes in ferrites, which produced new information on the statistical system of Bloch walls. The decrease of magnetic induction as a function of the period after demagnetization of the sample in a constant magnetic field (or disaccomodation of induction) was studied for various values of the d-c magnetic field. The ballistic method was used. The experimental results were interpreted from the point of view of irreversible wall displacements. It was shown that under certain assumptions it is possible to derive the statistical distribution of Bloch wall energies from the experimental curves for substances in which magnetic diffusion after-effect exists. In the method used a new variable, time (t), was introduced which permitted the magnetization processes to be studied in a time expansion. Manganese ferrite of the composition Mn 136 Fe 16404 Card

problem a	in the experiment. The author thanks Dr. S. Krupicka for suggesting to many helpful discussions. Orig. art. has: 8 figures and 7 formulas							g the	
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KRATOCHVILOVA, E.; KRUPICKA, S.; STERNBERK, J.; ZITKA, B.

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Time increase of induction in the manganese-copper ferrite with rectangular hysteresis loop. Cs cas fys 14 no. 4: 293-302 '64.

1. Institute of Solid State Physics, Czechoslovak Academy of Sciences, Prague.

24. 2200

2/037/60/000/02/003/018

AUTHORS:

Broz, Jaromír and Kratochvílova. Eva 20

TITLE:

Measurement of Magnetization with the Aid of a Physical

Pendulum

PERIODICAL: Československý časopis pro fysiku, 1960, Nr 2,

pp 102 - 106

ABSTRACT:

The method (a modification of that described by Rathenau and Snoek, Ref 1) is suitable for measurements up to 600 °C. The equations of motion of a pendulum with a ferromagnetic sample moving in an inhomogeneous magnetic field is given by Eq (1), where M is the mass of the sample-holder, etc., J the moment of inertia, F the product of the field gradient and the sample's magnetic moment, s the distance of the centre of gravity from the axis, the distance of the sample from the axis and m the mass of the sample. If $x = \psi$, m << M and dH/dx = cx, it follows that:

Card1/4

APPROVED FOR RELEASE: Monday, July 31, 2000

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Z/037/60/000/02/003/018
Measurement of Magnetization with the Ald of a Physical Pendulum

where to is the pendulum's period in the absence of a magnetic field, to the period in the presence of a magnetic field, I the sample's magnetization intensity and vothe volume of the sample. The main part of the equipment (Figure 1) is the Y-shaped pendulum made from thin glass tubes. The motion of the pendulum is restricted to a plane perpendicular to the direction of the magnetic field. The position of the pendulum's axis can be adjusted so that the sample intersects the can oscillate in a small electric furnace located between the magnetic field is produced.

The magnetic field is produced by an electromagnet with hemispherical pole pieces (3.5 cm radius) whose separation is adjustable; II was measured by a ballistic method and was found to vary as Eq (5); here H is a constant,

a and b depend on the separation of the pole pieces and the magnetizing current. Figure 2 also shows dH/dx.

Card2/4

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Measurement of Magnetization with the Ald of a Physical Pendulum

Because the amplitude of the oscillation was less than 0.2 cm, Eq (3) applied with c = -2a = -4450 O

With 2.12 cm between the pole pieces, M = 46.03 g, s = 15.95 cm, l = 61.3 cm, one obtains (Eq 4):

 $k = \frac{133}{12} = 0.0431$ abs. un. cm³. By comparing

measurements of the magnetization of various saturated ferrites at room temperature with measurements obtained by the ballistic method, the validity of Eq (4) was confirmed (see Figure 3 comparing I_s (pend) with I_s (bal).)

The temperature dependence has been measured of the saturated magnetization of various ferrites. Figure 4 shows this dependence for Mn 1.15 Fe 1.8504. The points

marked by circles were obtained by the ballistic method, while those marked by crosses by the pendulum method. room temperature, the values coincide and both curves join

Card3/4

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z/037/60/000/02/003/018

Measurement of Magnetization with the E024/E320 Physical Pendulum

The samples may be quite small (v approx 5 x 10^{-5} to $5 \times 10^{-3} \text{ cm}^3$).

The accuracy of the method depends on the accuracy with t is determined. In the authors' case, this was done electronically with an accuracy of 0.01 sec. One may expect to determine the magnetization intensity with an accuracy of 1%. There are 4 figures and 2 references, of which l is English and 1 Czech.

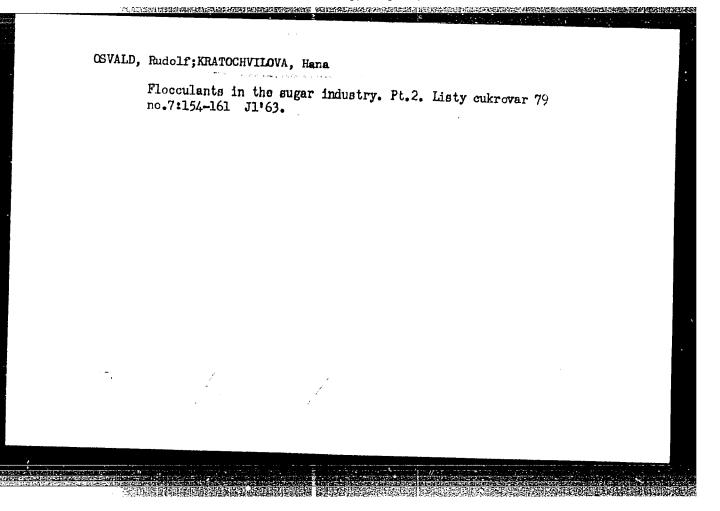
ASSOCIATION: Ústav technické fysiky ČSAV, Praha (Institute of Technical Physics, Prague)

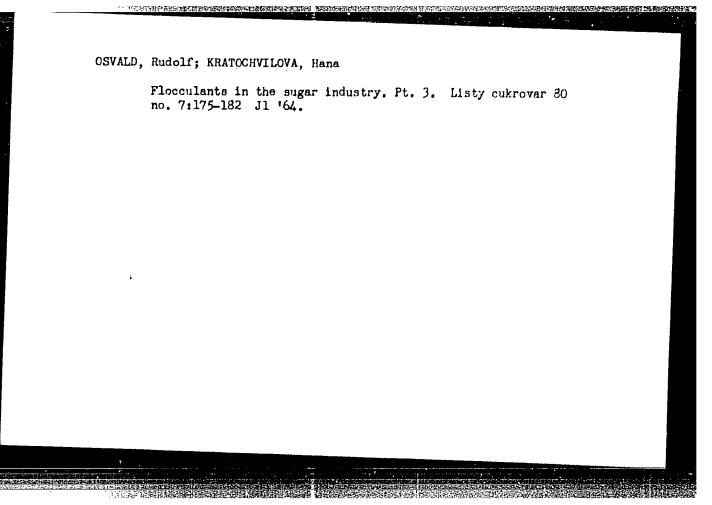
SUBMITTED: August 17, 1959

Card 4/4

OSVALD, R.; KRATOCHVILOVA, H.

Pasic relations of physicochemical parameters of the first turbid saturated juice. Listy cukrovar 79 no.9:218-223





"PRAT, V.; BROD, J.; BENESOVA, D.; DEJDAR, R.; FENCL, V.; HORAK, O.; CERVINKA, F.; KRATOCHVILOVA, J.; PAVKOVA, L.

Research on chronic pyelonephritis during the first ten years of the Institute for Cardiovascular Research. Rev. czech. M. 8 no.2: 113-123 62.

1. Institute for Cardiovascular Research, Prague; Director: Academician K. Weber, Department of Morbid Anatomy and Microbiology, Faculty of Paediatrics, Charles University, Prague; Mead: Doc. Dr. D. Benesova, Institute of Clinical and Experimental Surgery, Prague; Director: Prof. Dr. B.Spacek.

(PYELOMEPHRITIS statistics)

KRATOCHVILOVA, K.; TICHY, J., ZELENKA, J.

THE PARTY AND THE PROPERTY OF THE PROPERTY OF

The effect of radiation on the properties of piezoelectric resonators. Cs cas fys 12 no. 2:144-151. '62.

- 1. Katedra matematiky a fysiky, Vysoka skola strojni a textilni, Liberec (for Kratochvilova, Tichy).
- 2. Tesla Lanskroun, zavod 05, Hradec Kralove (for Zelenka)

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Z/037/62/000/002/007/015 E024/E135

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Kratochvílová, K., Tichy, J. and Zelenka, J.

TITLE:

Influence of radiation on the properties of

piezoelectric resonators

TERTODICAE: Ceskoslovenský časopis pro fysiku, no.2, 1962, 144-151

TEXT: The effect of radiation on piezoelectric oscillators is one of the environmental influences which are becoming important as demands on the accuracy and stability of crystal oscillators increase. The authors briefly review the field of radiation damage in solids in general and in piezoelectric crystals in particular, before describing their own experiments on oscillators from natural quartz and from DKT. The source of radiation was either Co-60 or X-rays from a copper target at 35 kV. No change was detected in the longitudinal vibrations of quartz oscillators cut in the XYa-50 direction due to irradiation by several hundred r units of X-rays and up to 105 r units of γ rays. This result is in agreement with published Card 1/3

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Influence of radiation on the ... Z/037/62/000/002/007/015 E024/E135

results. On the other hand, the torsional vibrations of type BT quartz-crystal-oscillators with orientation YXl49020' at about 13 Mc/s were influenced by irradiation. Irradiation by up to $105 \times 10^{5} \text{ r}$ of X-rays gradually reduced the resonance frequency from over 13514 kc to under 13510 kc. The reduction in the resonance frequency tended to saturate. A similar oscillator with a resonance frequency of 10 Mc/sec was irradiated by up to 105 r of γ-rays. This irradiation reduced the resonance frequency only very slightly and barely influenced the temperature-dependence of the frequency. Similar results were obtained with oscillators of the type AT with orientation YX (-35010' . The influence of X-rays on oscillators made from DET was studied on samples cut in the XZa370301 orientation at about 100 kc/sec. Irradiation with about reduced the resonance frequency by 4-5 cycles if the crystal $3 \times 10^{5} \text{ r}$ was scaled in a glass envelope and by about 12 cycles when irradiated in the open. No change in the temperature-dependence of the frequency was detected. It appeared that irradiation Card 2/3

Influence of radiation on the \dots $\frac{Z/037/62/000/002/007/015}{E024/E135}$

was more effective if carried out while the crystal was vibrating. The theoretical interpretation of the above results has not yet been clarified. There are 3 figures.

ASSOCIATION: Tesla Lanskroun, závod 05, Hradec Králové (J.Zelenka) (Tesla Lanskroun, Factory 05, Hradec Králové) Katedra matematiky a fysiky VŠST, Liberec (K.Krat-ochvílová and J. Tichý) (Department of Mathematics and Physics, VŠST, Liberec)

SUBMITTED: November 30, 1961

Card 3/3

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008262200

ADAM, E.; KUEATOVA, E.; KRATOCHVILOVA, M.; BURIAN, V.; SKVARIL, F.;

Statisticke zpracovani; MALY, V.

Preparations of placental gamma glovulins stabilized by epsilon-aminocaproic acid. Study on the rectivity and efficiency. Cas. lek. Cesk. 104 no.4:1093-1100 8 0 165.

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KRATOSTVILOVA, O

"Apolication of exare II-mosin in botenical microtechniques."

BICLOGIA, Bratislava, Czechoslovakia, Vol. 13, no. 7, 1958

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Unclas

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KRATOCHVILOVA, O.

Development of the boll of the species Linum Austriacum L. p. 5

BIOLOGICKE PRACE (Slovenska akademia vied. sekcia biologickych a lekarskych vied) Bratislava Czechoslovakia

Vol. 5, no. 7, 1959

Monthly list of East European Accessions (EEAI) LC. VOL. 9, no. 1 January 1960

Uncl.

KRATCCHVTLOVA, O.

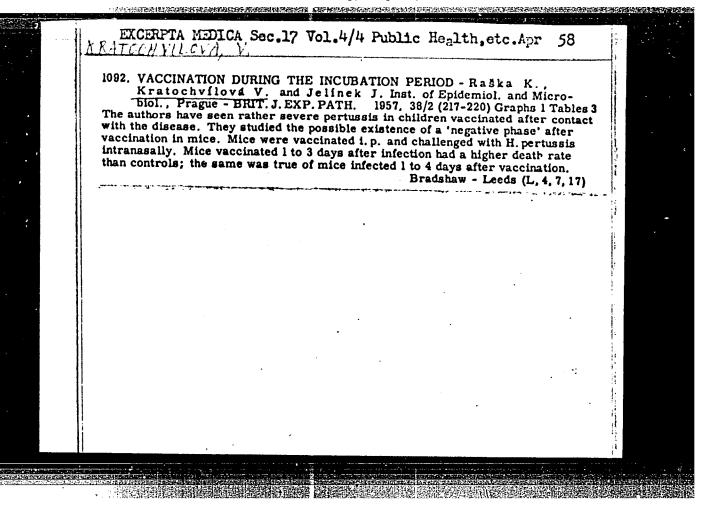
"Centripetal origin of cell walls in the embryonic sac of Linum austriacum L."

Biologia. Bratislava, Czechoslovakia. Vol. 14, no. 2, 1959

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 7, July 59, Unclas

Froblem of sulfonamide-resistance in Shigella. Cesk. epidem. mikrob. imun. 6 no.5:337-338 Sept 57.

1. Ustav epidemiologie a mikrobiologie, reditel prof. Dr. Karel Raska. (SHIGELIA DYSENTERIAR, effect of drugs on, sulfonamides, resist. (Cz)) (SULFONAMIDES, effects, on Shigella dysenteriae, resist. (Cz))



KRATOCHVILOVA, V.; JELINEK, J.; RASKA, K.

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Vaccination during the incubation period. II. A comparison of intransal and intracerebral infection with H. pertussis. J. Hyg. Epidem., Praha 2 no.1:23-28 1958.

1. Institute of Epidemiology and Microbiology, Srobarova 48, Prague 12, Czechoslovakia.

(HEMOPHILUS PERTUSSIS, immunology eff. of vacc. of mice before & after exper. intransal or intracerebral H. pertussis infect.)

SOBEK, V.; KRATOCHVILOVA, V.

Effect of chlortetracycline on growth. Cas. lek. cesk. 97 no.43:1365-1367-24 Oct 58.

1. Katedra farmakologie a experimentalni pathologie, prednosta prof. MUDr. H. haskova Ustav epidemiologie a mikrobiologie prednosta Prof. MODr. K. Raska.

(OROWIH, eff. of drugs on chlortetracycline in young rats (Cz))

(CHLORTETRACYCLINE, eff.

on growth in young rats (Cz))

GARBINSKI, T.; KRATOCHWIL, L.

Effect of jaundice on tuberculin reactions in man. Gruslica 21 no.2: 157-160 Feb 1953. (CIML 24:4)

1. Of the Clinic of Tuberculosis (Head-Docent T. Garbinski, M.D.) of Wroclaw Medical Academy and of Lesne Sanatorium (Head-L. Kratochwil, M.D.), Oborniki Slaskie.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008262200